

# 18-220

## Mammographic Accreditation Phantom



The 18-220 Mammographic Accreditation Phantom will assist you in complying with MQSA and the American College of Radiology (ACR) Quality Control Programs. This phantom is intended for use as an integral part of the Mammographic Quality Control Program, and when used to perform routine mammographic QC, it will help you quickly, easily, and accurately evaluate the overall imaging performance of your mammographic system. This phantom will detect imaging changes so you can make the necessary corrections

in order to maintain your system at peak performance.

The 18-220 Mammographic Accreditation Phantom was designed to test the performance of a mammographic system by a quantitative evaluation of the system's ability to image small structures similar to those found clinically. Objects within the phantom simulate calcifications, fibrous calcifications in ducts, and tumor masses.

The phantom is also designed to determine if a mammographic system can detect small structures that are important in the early detection of breast cancer. Test objects within the phantom range in size from those that should be visible on any system, to objects that will be difficult to see even on the best mammographic system.

### Key features

- Helps ensure optimum image quality and peak performance of the mammographic system
- Essential for MQSA compliance
- Complies with ACR phantom specifications and QC requirements
- Contains test objects to simulate indications of breast cancer; punctuate calcifications, tissue fibrillar extensions in adipose tissue, and tumor like masses
- Ideal for monitoring the overall performance of your mammographic imaging system, x-ray generator, film processor, and screen-film combination
- Equivalent in x-ray attenuation to a 4.5 cm compressed "average" breast

Optional are two 2 cm acrylic plates. The addition of these two plates, when combined with the overall 4.4 cm thickness of the phantom, will allow the system image quality to be checked in varying thicknesses of 2 cm to 8.5 cm. Both of these items are recommended by ACR in their Mammography Quality Control Procedure.

## Specifications

Phantom body		
Material	Acrylic	
Dimensions	Overall (WxDxH): 10.15 cm x 10.8 cm x 4.4 cm (4 in x 4.25 in x 1.75 in)	
	Acrylic base: 3.4 cm in thick (1.375 in)	
	Cover: 3 mm thick (0.128 in)	
	Acrylic contrast test disk: 1 cm Ø x 4 mm	
Weight	0.55 kg (1.2 lb)	
Wax insert		
Nylon fibers	Al2O3 Specks	Masses (thickness)
1) 1.56 mm	7) 0.54 mm	12) 2 mm
2) 1.12 mm	8) 0.4 mm	13) 1 mm
3) 0.89 mm	9) 0.32 mm	14) 0.75 mm
4) 0.75 mm	10) 0.24 mm	15) 0.5 mm
5) 0.54 mm	11) 0.16 mm	
6) 0.4 mm		

### Optional accessories

- 18-237 Acrylic Plates, 10 cm x 10 cm x 2 cm thick, set of 2
- 18-205 Acrylic Contrast Test Disc, 1 cm Ø x 4 mm
- 89-220 Carrying Case

### Included accessories

Acrylic contrast test disk, faxitron x-ray image, and magnifying glass

### Ordering information

18-220 Mammographic Accreditation Phantom